

City of Austin Federal Emergency Management Agency Cooperating Technical Community Mapping Activity Statement

Agreement No. 3- Redelineation of Floodplain Boundaries Using Updated Topographic Data

In accordance with the Cooperating Technical Community (CTC) Memorandum of Agreement dated May 23, 2000 between the City of Austin and the Federal Emergency Management Agency (FEMA), Agreement No. 3 is as follows:

1. Objective and Scope: The objective of this Mapping Activity is to redelineate detailed floodplain boundaries in four map panels within the City of Austin and portions of Travis County, Texas. Delineations will be of the 4%, 1% and 0.2% annual chance floods and floodway for flooding sources found on map panels 48453C0170, 48453C0175, 48453C0210, and 48453C0215. Flooding sources include portions of the following streams and tributaries: Town Lake (Colorado River), Country Club Creek Improved Channel, Country Club Creek Old Channel, Carson Creek, Williamson Creek, Cherry Creek, Onion Creek, Cottonmouth Creek North Fork Dry Creek 3, Marble Creek, Rinard Creek, Boggy Creek South, and Slaughter Creek.

2. Period of Performance:

This Mapping Activity may be terminated at the option of FEMA or City of Austin in accordance with the provisions of the May 23, 2000 CTC Memorandum of Agreement. The period of performance will be in from September 30, 2000 to September 30, 2001.

3. Period of Performance:

The period of performance will be in accordance with Agreement Article II.

- **4.** Funding/Cost-Sharing: Funding and cost-sharing shall be as detailed in Attachment I, Budget by Task Cost Summary
- 5. Standards: The following standards and documents are relevant to this Mapping Activity:
 - Topographic mapping used to delineate the floodplain boundaries will be more recent and/or detailed than that used to prepare the effective FIRM for City of Austin. It will be of adequate scale and topographic definition to provide reasonable accuracy and planimetric features will be compatible with the base map (with respect to horizontal accuracy) to be used by FEMA for Digital FIRM production. Topographic mapping taken from aerial photogrammetry or surveys will comply with the requirements of Appendix 4 of FEMA 37. The selection of the topographic mapping source to be used will be coordinated with the FEMA Project Officer prior to analysis and mapping.

- Changed hydraulic conditions and/or significant discrepancies in stream distance between the
 profile and topographic mapping indicate the need for updated hydraulic analyses and may
 preclude the completion of this Mapping Activity for some flooding sources. Therefore, prior
 to redelineating floodplain boundaries, the effective FIS flood profiles will be evaluated to
 determine:
 - If the flood elevations remain valid or if hydraulic conditions have changed such that the profile no longer represents existing conditions (i.e., bridge or culvert construction) necessitating updated hydraulic analyses;
 - If the flood profile baseline reasonably fits the streamline on the topographic mapping to be used for this activity.
- Work maps will comply with the requirements outlined in Chapter 9 of FEMA 37. The work maps should include the 1% and 0.2% annual chance floodplain boundaries; floodway limits; cross sections; and BFE and Flood Insurance Zone labels.
- Digital mapping submissions will comply with the requirements of Chapter 9 and Appendix 7 of FEMA 37.
- **6. Products:** City of Austin will make the following products available:
 - Digitized topographic work maps depicting the revised 4%, 1% and 0.2% annual chance floodplain boundaries; floodway limits; cross sections; and BFE and Flood Insurance Zone labels.
 - Form number 5 of Revisions to National Flood Insurance Program Maps, Application/Certification Forms and Instructions (MT-2).
 - Other products specified in Attachment J, Summary of Deliverables and Schedule of Tasks.

7. Schedule and Milestones:

Milestone 1: Upon completion, products for the first milestone will be provided to the FEMA Project Officer. These include:

- Documentation of the proposed source of topographic data, including: scale; contour interval; source/methodology; date of survey/data collection; vertical and horizontal datums; and comparison of planimetric features with the Digital FIRM base map planned for use by FEMA.
- A written assessment of the appropriateness of utilizing the FIS flood profiles for this Mapping Activity.
- Annotated copies of effective FIRMs depicting limits of proposed floodplain revisions.

Milestone 2 (Final Product): Upon completion, final products will be provided to the FEMA Project Officer. These include:

- Digital Topographic work maps depicting 4%, 1% and 0.2% annual chance floodplain boundaries; floodway limits; and BFE and Flood Insurance Zone labels.
- Completed form number 5 of *Revisions to National Flood Insurance Program Maps*, *Application/Certification Forms and Instructions* (MT-2).

Final products will be made available to FEMA in accordance with the Period of Performance defined in Section 2 of this Mapping Activity Statement.

- 8. Certification: The following certifications apply to this Mapping Activity (as appropriate):
 - Topographic information will be certified by a registered professional engineer or licensed land surveyor in accordance with 44 CFR 65.5(c).
 - If fill is to be considered in the mapping to raise land areas above the 1% annual chance flood elevation, certification of the fill will be provided in accordance with 44 CFR 65.5(a)(6) by the community's NFIP permit official, a registered professional engineer, or a licensed land surveyor.
- 9. Technical Assistance and Resources: City of Austin may obtain copies of effective FIS hydraulic models, FEMA-issued Letters of Map Change (LOMCs), and archived engineering back-up data from FEMA's Mapping Coordination Contractor (MCC). The MCC/TEC may be contacted at 1-877 FEMA MAP. Specific technical and programmatic support may be provided through FEMA's MCC; such assistance should be requested through the FEMA Project Officer specified in Section 12 of this Mapping Activity Statement.
- 10. Subcontractors: City of Austin shall procure and manage professional consultant services to assist with redelineation of flood plain boundaries based on new topographic data. Procurement of subcontractors using Federal funds provided as part of this Mapping Activity will comply with the requirements of 44 CFR 13.36.
- 11. Quality Assurance/Quality Control (QA/QC) Procedures: The QA/QC procedures outlined in Chapter 10 of FEMA 37 should be followed during the development of the revised floodplain and floodway boundaries. The mapping should be independently reviewed for compliance with the standards defined in Section 4 of this Mapping Activity Statement. This independent review will be conducted by an entity to be determined that is mutually agreeable to the City of Austin and FEMA.
- 12. Reporting: Reporting requirements will be in accordance with Agreement Articles V & VI.
- 13. Points of Contact: The FEMA Project Officer is Jack B. Quarles, P.E. and the CTC's Project Manager is J. David Walker, P.E., or subsequent personnel of comparable experience who are appointed to fulfill these responsibilities.

Each party	has caused	this Mapping	Activity	Statement to	be executed	by its duly	authorized
representati	ves.						

CTC Partner's authorized representative	date
FEMA authorized representative	date